EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	("(extract$4with(document$5ortext ormediaorcontent))same(featuresor attributesorcharacteristics)and@ad <12152003").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/26 19:00
L3	1	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"12152003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L4	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L5	6304	L4 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L6	1291	L5 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L7	324	L6 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L8	1	L6 and publish$4 and (rank or sort or grad$4) and (relevance adj factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L9	6	L6 and publish$4 and (rank or sort or grad$4) and (relevance with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L10	187	L6 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

EAST Search History

L11	27	L6 and publish$4 and (rank or sort or grad$4) and ((relevance or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L12	30	L6 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L13	30	L6 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L14	9	L6 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L15	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L16	6304	L15 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L17	1291	L16 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L18	6304	L15 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L19	9	L17 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

EAST Search History

L20	30	L17 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L21	6304	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L22	30	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L23	30	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L24	1291	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L25	30	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L26	9	L17 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L27	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L28	6304	L27 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L29	1291	L28 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L30	1	L29 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L31	1	L29 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and instructions	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L32	1	L29 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and updating and publication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L33	1	L29 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and updating and publication and (character adj string)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L34	8	L29 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L35	3	L29 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and ("20030182310" or "20030050927") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L36	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L37	6304	L36 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L38	1291	L37 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L39	20	707/104.1.ccls. and L38 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L40	17	707/5.ccls. and L38 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L41	8	715/513.ccls. and L38 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L42	34	707/3.ccls. and L38 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L43	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L44	6304	L43 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L45	1291	L44 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L46	13	707/6.ccls. and L45 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L47	3	"20050138055"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L48	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L49	6304	L48 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L50	1291	L49 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L51	324	L50 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L52	5543	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L53	8757	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L54	1094	(extract$4 with (document$5 or text or media or content)) and publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L55	602	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L56	6991	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L57	0	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and (token with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L58	242	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L59	3985	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L60	5	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) same relevan$4 same factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L61	1	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L62	2	"6029195".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L63	2	"6772110".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L64	0	("(extract$4with(document$5ortext ormediaorcontent))same(featuresor attributesorcharacteristics)and@ad <12152003").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/26 19:00
L65	1	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"12152003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L66	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L67	6304	L66 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L68	1291	L67 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L69	324	L68 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L70	1	L68 and publish$4 and (rank or sort or grad$4) and (relevance adj factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L71	6	L68 and publish$4 and (rank or sort or grad$4) and (relevance with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L72	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L73	6304	L72 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L74	6304	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L75	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L76	6304	L75 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L77	1291	L76 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L78	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L79	6304	L78 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L80	1291	L79 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L81	8	715/513.ccls. and L80 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L82	1094	(extract$4 with (document$5 or text or media or content)) and publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L83	602	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L84	6991	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L85	0	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and (token with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L86	242	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L87	3985	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L88	1	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L89	9	L68 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L90	1	L77 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and instructions	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L91	1	L77 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L92	1	L77 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and updating and publication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L93	1	L77 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and updating and publication and (character adj string)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L94	30	L68 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L95	1291	L73 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L96	30	L95 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L97	187	L68 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L98	30	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L99	30	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L100	30	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00

L101	9	L95 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:00
L102	8	L77 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L103	3	L77 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and ("20030182310" or "20030050927") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L104	3	"20050138055"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L105	5	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) same relevan$4 same factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L106	2	"6029195".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L107	2	"6772110".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L108	27	L68 and publish$4 and (rank or sort or grad$4) and ((relevance or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01

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L109	1291	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L110	30	L68 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L111	6304	L72 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L112	9	L95 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L113	20	707/104.1.ccls. and L80 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L114	17	707/5.ccls. and L80 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L115	34	707/3.ccls. and L80 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L116	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L117	6304	L116 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01

L118	1291	L117 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L119	13	707/6.ccls. and L118 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L120	10416	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L121	6304	L120 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L122	1291	L121 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L123	324	L122 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L124	5543	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L125	8757	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L126	2	"6029195".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L127	3	("6041323".pn. or "20030182310") and (cluster or upgrad$4 or dynamica$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01

L128	0	"6041323".pn. and "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L129	5	"6041323".pn. or "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L130	0	("6041323".pn. or "20030182310") and (cluster and upgrad$4 and dynamica$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L131	0	("6041323".pn. or "20030182310") and (cluster and upgrad$4 and dynami$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L132	2	("6041323".pn. or "20030182310") and (cluster and updat$4 and dynami$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L133	2	("6041323".pn. or "20030182310") and (cluster and updat$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L134	2	("6041323".pn. or "20030182310") and (cluster)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L135	2	("6041323".pn. or "20030182310") and (updat$4 with dynami$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L136	3	("6041323".pn. or "20030182310") and (updat$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L137	2	("6041323".pn. or "20030182310") and ((cluster with updat$4) and dynami$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01

L138	59	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and (inner adj product)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L139	3	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and ((inner adj product)with (features or attributes or characteristics)) and (layers with (collections or clusters or neighborhoods or sets))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L140	15	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and ((inner adj product)with (features or attributes or characteristics))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L141	2	"5953707".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L142	7	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and ((inner adj product)with (features or attributes or characteristics)) and layers	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L143	6	(frequency near2 events) with ((devices or equipments or components or applications or software) near2 computer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01

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L144	6462	(frequency near2 events)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L145	4	(frequency near2 events) with ((devices or equipments or components) near2 computer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L146	2	((storage near2 blocks) with allocat$4 with states) and @ad < "20041019" and (pre$allocat$4 near2 state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L147	0	"6041328".pn. and "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L148	6	(search or monitor) with ((frequency near2 events) with ((devices or equipments or components or applications or software))) and @ad < "20050630"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L149	11	(search or monitor) with ((frequency near2 events) with ((devices or equipments or components or applications or software)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L150	5	"6041328".pn. or "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L151	455	(frequency near2 events) with ((devices or equipments or components or applications or software))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L152	1228	storage with allocat$4 with states	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L153	40	(storage near2 blocks) with allocat$4 with states	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01

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L154	37	(storage near2 blocks) with allocat$4 with states and @ad < "20041019"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L155	37	((storage near2 blocks) with allocat$4 with states) and @ad < "20041019"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
L156	5	"6041323".pn. or "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:01
S1	0	("(extract$4with(document$5ortext ormediaorcontent))same(featuresor attributesorcharacteristics)and@ad <12152003").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/14 14:19
S2	0	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"12152003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:23
S3	9831	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:23
S4	5832	S3 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:24
S5	1121	S4 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:25
S6	278	S5 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:02
S7	1	S5 and publish$4 and (rank or sort or grad$4) and (relevance adj factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:32

S8	4	S5 and publish$4 and (rank or sort or grad$4) and (relevance with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:33
S9	162	S5 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:19
S10	22	S5 and publish$4 and (rank or sort or grad$4) and ((relevance or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:33
S11	25	S5 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 14:34
S12	25	S5 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:24
S13	7	S5 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:05
S14	9831	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:30
S15	5832	S14 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:26
S16	1121	S15 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:27

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S17	5832	S14 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:22
S18	25	S16 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:27
S19	7	S16 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:33
S20	5832	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:27
S21	1121	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:19
S22	25	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:30

S23	25	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:32
S24	25	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 15:32
S25	7	S16 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 14:23
S26	9831	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:19
S27	5832	S26 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:19
S28	1121	S27 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:19
S29	1	S28 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:26

S30	1	S28 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and instructions	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:35
S31	1	S28 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and updating and publication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:56
S32	1	S28 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323". pn. and updating and publication and (character adj string)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:56
S33	6	S28 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 14:27
S34	2	S28 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and ("20030182310" or "20030050927") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 14:28
S35	9830	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:19
S36	5832	S35 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:19
S37	1121	S36 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:19
S38	19	707/104.1.ccls. and S37 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:20

S39	15	707/5.ccls. and S37 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:21
S40	6	715/513.ccls. and S37 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:20
S41	32	707/3.ccls. and S37 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:28
S42	9830	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:28
S43	5832	S42 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:28
S44	1121	S43 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:28
S45	12	707/6.ccls. and S44 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:28
S46	2	"20050138055"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/16 12:42
S47	10119	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:06
S48	6069	S47 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:04

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S49	1205	S48 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:03
S50	305	S49 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:02
S51	7281	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:05
S52	5246	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:06
S53	1022	(extract$4 with (document$5 or text or media or content)) and publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:06
S54	6793	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:07
S55	3828	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:08
S56	572	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:08

S57	228	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:09
S58	0	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and (token with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:10
S59	0	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:10
S60	4	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) same relevan$4 same factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 11:18
S61	2	"6029195".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 15:30
S62	2	"6772110".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 15:30
S63	0	("(extract$4with(document$5ortext ormediaorcontent))same(featuresor attributesorcharacteristics)and@ad <12152003").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/26 18:59

EAST Search History

S64	1	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"12152003"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S65	10119	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S66	6069	S65 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S67	1205	S66 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S68	305	S67 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S69	1	S67 and publish$4 and (rank or sort or grad$4) and (relevance adj factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S70	5	S67 and publish$4 and (rank or sort or grad$4) and (relevance with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S71	177	S67 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S72	25	S67 and publish$4 and (rank or sort or grad$4) and ((relevance or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S73	28	S67 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59

S74	28	S67 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S75	9	S67 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S76	10119	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S77	6069	S76 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S78	1205	S77 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S79	6069	S76 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S80	9	S78 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S81	28	S78 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59

S82	6069	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S83	28	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S84	28	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (not MicroSoft$5.as.) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S85	1205	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S86	28	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59

S87	9	S78 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S88	10119	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S89	6069	S88 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S90	1205	S89 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S91	1	S90 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S92	1	S90 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323".pn. and instructions	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S93	1	S90 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323".pn. and updating and publication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S94	1	S90 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and "6041323".pn. and updating and publication and (character adj string)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S95	8	S90 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and (("6041323" or "6029195").pn. or "20050022114" or "20030182310" or "20030061200" or "20030050927" or "20020069218") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59

S96	3	S90 and publish$4 and (rank or sort or grad$4) and ((relevanc$2 or weight) with factor) and ("20030182310" or "20030050927") and grouping and grouped and group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S97	10119	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S98	6069	S97 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S99	1205	S98 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S100	20	707/104.1.ccls. and S99 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S101	17	707/5.ccls. and S99 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S102	7	715/513.ccls. and S99 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S103	34	707/3.ccls. and S99 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S104	10119	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59

S10 5	6069	S104 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S10 6	1205	S105 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S10 7	12	707/6.ccls. and S106 and publish$4 and (rank or sort or grad$4) and (relevance or weight)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S10 8	2	"20050138055"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S10 9	10119	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 0	6069	S109 and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 1	1205	S110 and (user with (request or inquir$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 2	305	S111 and publish$4 and (rank or sort or grad$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 3	5246	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 4	7281	publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59

S11 5	1022	(extract$4 with (document$5 or text or media or content)) and publish$4 and (rank or sort or grad$4) and (user with (request or inquir$4)) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 6	572	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 7	6793	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 8	0	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and (token with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S11 9	228	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S12 0	3828	(extract$4 with (document$5 or text or media or content)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and @ad<"20031215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S12 1	4	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) same relevan$4 same factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59

S12 2	0	(extract$4 with (document$5 or text)) with (tokens or features or attributes or characteristics) and (group$4 or cluster$4 or categoriz$4 or classif$4) and publish$4 and (rank or sort or grad$4)and @ad<"20031215" and ((token or string or text) with relevan$4 with factor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S12 3	2	"6029195".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S12 4	2	"6772110".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 18:59
S12 5	2	"6029195".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 19:08
S12 6	0	"6041323".pn. and "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:32
S12 7	5	"6041323".pn. or "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:32
S12 8	3	("6041323".pn. or "20030182310") and (cluster or upgrad$4 or dynamica$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:36
S12 9	0	("6041323".pn. or "20030182310") and (cluster and upgrad$4 and dynamica$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:37
S13 0	0	("6041323".pn. or "20030182310") and (cluster and upgrad$4 and dynami$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:37

EAST Search History

S13 1	2	("6041323".pn. or "20030182310") and (cluster and updat$4 and dynami$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:46
S13 2	2	("6041323".pn. or "20030182310") and (cluster and updat$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:42
S13 3	2	("6041323".pn. or "20030182310") and (cluster)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:43
S13 4	2	("6041323".pn. or "20030182310") and (updat$4 with dynami$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:44
S13 5	3	("6041323".pn. or "20030182310") and (updat$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 13:54
S13 6	2	("6041323".pn. or "20030182310") and ((cluster with updat$4) and dynami$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/27 09:46
S13 7	59	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and (inner adj product)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:22
S13 8	15	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and ((inner adj product)with (features or attributes or characteristics))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 18:45

S13 9	2	"5953707".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:38
S14 0	7	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and ((inner adj product)with (features or attributes or characteristics)) and layers	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 11:53
S14 1	3	(extract$4 with (document$5 or text or media or content)) same (features or attributes or characteristics) and @ad<"20031215" and (group$4 or cluster$4 or categoriz$4 or classif$4) and (user with (request or inquir$4)) and ((inner adj product)with (features or attributes or characteristics)) and (layers with (collections or clusters or neighborhoods or sets))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 11:54
S14 2	1228	storage with allocat$4 with states	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 13:23
S14 3	40	(storage near2 blocks) with allocat$4 with states	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 13:24
S14 4	37	(storage near2 blocks) with allocat$4 with states and @ad < "20041019"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 13:24
S14 5	37	((storage near2 blocks) with allocat$4 with states) and @ad < "20041019"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 13:25

S14 6	2	((storage near2 blocks) with allocat$4 with states) and @ad < "20041019" and (pre$allocat$4 near2 state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 14:15
S14 7	6462	(frequency near2 events)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 14:17
S14 8	4	(frequency near2 events) with ((devices or equipments or components) near2 computer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 14:18
S14 9	6	(frequency near2 events) with ((devices or equipments or components or applications or software) near2 computer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 14:19
S15 0	455	(frequency near2 events) with ((devices or equipments or components or applications or software))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 14:19
S15 1	11	(search or monitor) with ((frequency near2 events) with ((devices or equipments or components or applications or software)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 14:20
S15 2	6	(search or monitor) with ((frequency near2 events) with ((devices or equipments or components or applications or software))) and @ad < "20050630"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 15:16
S15 3	0	"6041328".pn. and "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 15:17
S15 4	5	"6041328".pn. or "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 15:17
S15 5	5	"6041323".pn. or "20030182310"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 15:17

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1 Course 23: Geometric modeling based on polygonal meshes: Geometric modeling based ◼
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Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl
August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
Publisher: ACM Press

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> In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative to traditional spline surfaces, since their conceptual simplicity allows for more flexible and highly efficient processing.

2 Geometric modeling based on triangle meshes: Geometric modeling based on triangle ◼
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Mario Botsch, Mark Pauly, Christian Rossl, Stephan Bischoff, Leif Kobbelt
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3 A taxonomy of Data Grids for distributed data sharing, management, and processing ◼
Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(1.70 MB)   Additional Information: full citation, abstract, references, index terms

> Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual

organizations

4 <u>Realistic materials in computer graphics: Realistic materials in computer graphics</u> ■
Hendrik P. A. Lensch, Michael Goesele, Yung-Yu Chuang, Tim Hawkins, Steve Marschner,
Wojciech Matusik, Gero Mueller
July 2005   **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available: <u>pdf(18.24 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>

5 <u>TinyDB: an acquisitional query processing system for sensor networks</u> ■
Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong
March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: <u>pdf(1.67 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

We discuss the design of an acquisitional query processor for data collection in sensor
networks. Acquisitional issues are those that pertain to where, when, and how often data is
physically acquired (*sampled*) and delivered to query processing operators. By focusing on the
locations and costs of acquiring data, we are able to significantly reduce power consumption
over traditional passive systems that assume the a priori existence of data. We discuss simple
extensions to SQL for controlli ...

Keywords: Query processing, data acquisition, sensor networks

6 <u>Course 4: State of the art in massive model visualization: Efficient data reduction and</u> ■
<u>cache-coherent techniques toward real-time performance</u>
Dave Kasik
August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**

Publisher: ACM Press

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7 <u>Content 6 - video search: Semantic concept-based query expansion and re-ranking for</u> ■
<u>multimedia retrieval</u>
Apostol (Paul) Natsev, Alexander Haubold, Jelena Tešić, Lexing Xie, Rong Yan
September 2007 **Proceedings of the 15th international conference on Multimedia
MULTIMEDIA '07**

Publisher: ACM Press

Full text available: <u>pdf(521.20 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We study the problem of semantic concept-based query expansion and re-ranking for
multimedia retrieval. In particular, we explore the utility of a fixed lexicon of visual semantic
concepts for automatic multimedia retrieval and re-ranking purposes. In this paper, we
propose several new approaches for query expansion, in which textual keywords, visual
examples, or initial retrieval results are analyzed to identify the most relevant visual concepts
for the given query. These concepts are then u ...

8 <u>Classification and machine learning: Large scale semi-supervised linear SVMs</u> ■
Vikas Sindhwani, S. Sathiya Keerthi
August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on
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Publisher: ACM Press

Full text available: <u>pdf(258.81 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index</u>

terms

Large scale learning is often realistic only in a semi-supervised setting where a small set of labeled examples is available together with a large collection of unlabeled data. In many information retrieval and data mining applications, linear classifiers are strongly preferred because of their ease of implementation, interpretability and empirical performance. In this work, we present a family of semi-supervised linear support vector classifiers that are designed to handle partially-labeled spa ...

Keywords: global optimization, support vector machines, text categorization, unlabeled data

9 Best student papers: Semantic manifold learning for image retrieval

Yen-Yu Lin, Tyng-Luh Liu, Hwann-Tzong Chen

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: 🗋 pdf(2.12 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Learning the user's semantics for CBIR involves two different sources of information: the similarity relations entailed by the content-based features, and the relevance relations specified in the feedback. Given that, we propose an *augmented relation embedding* (ARE) to map the image space into a *semantic manifold* that faithfully grasps the user's preferences. Besides ARE, we also look into the issues of selecting a good feature set for improving the retrieval performance. With thes ...

Keywords: dimensionality reduction, feature selection, image retrieval, manifold learning, relevance feedback

10 Abstracts from math programming symposium

Michael Grigoriadis

April 1974 **ACM SIGMAP Bulletin**, Issue 16

Publisher: ACM Press

Full text available: 🗋 pdf(2.70 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

About half of the abstracts were published in the last Newsletter. In this issue we present the remaining ones. Each author was invited to update his abstract following his oral presentation to include the latest ideas. The updated abstracts were used when available, otherwise the original abstracts were used. Where an abstract are multiple authors to a paper, the one giving the paper is underlined and the address refers to that author.

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1 Course 23: Geometric modeling based on polygonal meshes: Geometric modeling based on polygonal meshes
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Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl
August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
Publisher: ACM Press

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In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative to traditional spline surfaces, since their conceptual simplicity allows for more flexible and highly efficient processing.

2 Geometric modeling based on triangle meshes: Geometric modeling based on triangle meshes
Mario Botsch, Mark Pauly, Christian Rossl, Stephan Bischoff, Leif Kobbelt
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**
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3 Survey articles: Data mining for hypertext: a tutorial survey
Soumen Chakrabarti
January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.19 MB)   Additional Information: full citation, abstract, references, citings

With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces: clicking on hyperlinks and searching via keyword queries. This process is often tentative and unsatisfactory. Better support is needed for expressing one's information need and dealing with a search result in more structured ways than av ...

4 Content 6 - video search: Semantic concept-based query expansion and re-ranking for multimedia retrieval

Apostol (Paul) Natsev, Alexander Haubold, Jelena Tešić, Lexing Xie, Rong Yan

September 2007 **Proceedings of the 15th international conference on Multimedia MULTIMEDIA '07**

Publisher: ACM Press

Full text available: pdf(521.20 KB)   Additional Information: full citation, abstract, references, index terms

We study the problem of semantic concept-based query expansion and re-ranking for multimedia retrieval. In particular, we explore the utility of a fixed lexicon of visual semantic concepts for automatic multimedia retrieval and re-ranking purposes. In this paper, we propose several new approaches for query expansion, in which textual keywords, visual examples, or initial retrieval results are analyzed to identify the most relevant visual concepts for the given query. These concepts are then u ...

5 Navigating within the data: VINETA: navigation through virtual information spaces

Uwe Krohn

May 1996 **Proceedings of the workshop on Advanced visual interfaces AVI '96**

Publisher: ACM Press

Full text available: pdf(2.31 MB)   Additional Information: full citation, abstract, references, citings

Vineta is a system prototype allowing navigation through bibliographic data without the typing and revising of keyword-based queries. Our approach to visualizing documents and terms in navigational retrieval includes the representation of documents and terms as graphical objects, and dynamic positioning of these objects in the 3D virtual navigation space. Users can navigate through this virtual navigation space examining individual documents and clusters of documents at various levels of detail. ...

6 Best student papers: Semantic manifold learning for image retrieval

Yen-Yu Lin, Tyng-Luh Liu, Hwann-Tzong Chen

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(2.12 MB)   Additional Information: full citation, abstract, references, index terms

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Keywords: dimensionality reduction, feature selection, image retrieval, manifold learning, relevance feedback

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    <u>based on polygonal meshes</u>
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    Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl
    August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
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    In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative to traditional spline surfaces, since their conceptual simplicity allows for more flexible and highly efficient processing.

2 <u>Geometric modeling based on triangle meshes: Geometric modeling based on</u> ■
    <u>triangle meshes</u>
    Mario Botsch, Mark Pauly, Christian Rossl, Stephan Bischoff, Leif Kobbelt
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3 <u>XML stream processing using tree-edit distance embeddings</u> ■
    Minos Garofalakis, Amit Kumar
    March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1
    Publisher: ACM Press

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    We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution is a novel algorithm for obliviously embedding tree-edit distance metrics into an $L1$ vector space while guaranteeing a (worst-case) upper bound of $O(\log^2 n \log\!*n)$ on the distance distortion betwee ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

4 Survey articles: Data mining for hypertext: a tutorial survey

Soumen Chakrabarti

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, citings

> With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces: clicking on hyperlinks and searching via keyword queries. This process is often tentative and unsatisfactory. Better support is needed for expressing one's information need and dealing with a search result in more structured ways than av ...

5 Navigating within the data: VINETA: navigation through virtual information spaces

Uwe Krohn

May 1996 **Proceedings of the workshop on Advanced visual interfaces AVI '96**

Publisher: ACM Press

Full text available: pdf(2.31 MB)   Additional Information: full citation, abstract, references, citings

> Vineta is a system prototype allowing navigation through bibliographic data without the typing and revising of keyword-based queries. Our approach to visualizing documents and terms in navigational retrieval includes the representation of documents and terms as graphical objects, and dynamic positioning of these objects in the 3D virtual navigation space. Users can navigate through this virtual navigation space examining individual documents and clusters of documents at various levels of detail. ...

6 Content 6 - video search: Semantic concept-based query expansion and re-ranking for multimedia retrieval

Apostol (Paul) Natsev, Alexander Haubold, Jelena Tešić, Lexing Xie, Rong Yan

September 2007 **Proceedings of the 15th international conference on Multimedia MULTIMEDIA '07**

Publisher: ACM Press

Full text available: pdf(521.20 KB)   Additional Information: full citation, abstract, references, index terms

> We study the problem of semantic concept-based query expansion and re-ranking for multimedia retrieval. In particular, we explore the utility of a fixed lexicon of visual semantic concepts for automatic multimedia retrieval and re-ranking purposes. In this paper, we propose several new approaches for query expansion, in which textual keywords, visual examples, or initial retrieval results are analyzed to identify the most relevant visual concepts for the given query. These concepts are then u ...

7 A corpus analysis approach for automatic query expansion and its extension to multiple databases

Susan Gauch, Jianying Wang, Satya Mahesh Rachakonda

July 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: pdf(111.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Searching online text collections can be both rewarding and frustrating. While valuable information can be found, typically many irrelevant documents are also retrieved, while many relevant ones are missed. Terminology mismatches between the user's query and document contents are a main cause of retrieval failures. Expanding a user's query with related words can improve search performances, but finding and using related words is an open problem. This research uses corpus analysis technique ...

Keywords: query expansion

8   <u>On the Nyström Method for Approximating a Gram Matrix for Improved Kernel-Based</u>   ▬
<u>Learning</u>
Petros Drineas, Michael W. Mahoney
December 2005 **The Journal of Machine Learning Research**, Volume 6
Publisher: MIT Press
Full text available: <u>pdf(218.76 KB)</u>   Additional Information: <u>full citation, abstract</u>

> A problem for many kernel-based methods is that the amount of computation required to find the solution scales as $O(n^3)$, where n is the number of training examples. We develop and analyze an algorithm to compute an easily-interpretable low-rank approximation to an $n \times n$ Gram matrix G such that computations of interest may be performed more rapidly. The approximation is of the form $\tilde{G}_k = C W_k^+ C^T$

9   <u>Best student papers: Semantic manifold learning for image retrieval</u>   ▬
Yen-Yu Lin, Tyng-Luh Liu, Hwann-Tzong Chen
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: <u>pdf(2.12 MB)</u>   Additional Information: <u>full citation, abstract, references, index terms</u>

> Learning the user's semantics for CBIR involves two different sources of information: the similarity relations entailed by the content-based features, and the relevance relations specified in the feedback. Given that, we propose an *augmented relation embedding* (ARE) to map the image space into a *semantic manifold* that faithfully grasps the user's preferences. Besides ARE, we also look into the issues of selecting a good feature set for improving the retrieval performance. With thes ...

> **Keywords**: dimensionality reduction, feature selection, image retrieval, manifold learning, relevance feedback

Results 1 - 9 of 9

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Terms used: **inner product ranked importance collection similarity grouping clusters**

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1   Generation and search of clustered files
G. Salton, A. Wong
December 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 4
Publisher: ACM Press

Full text available: 🗎 pdf(1.78 MB)   Additional Information: full citation, abstract, references, citings, index terms

A classified, or clustered file is one where related, or similar records are grouped into classes, or clusters of items in such a way that all items within a cluster are jointly retrievable. Clustered files are easily adapted to broad and narrow search strategies, and simple file updating methods are available. An inexpensive file clustering method applicable to large files is given together with appropriate file search methods. An abstract model is then introduced to predict the retrieval ...

Keywords: automatic classification, cluster searching, clustered files, fast classification, file organization, probabilistic models

2   Shape-based retrieval and analysis of 3D models
Thomas Funkhouser, Michael Kazhdan
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 🗎 pdf(12.56 MB)   Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

3   Term clustering of syntactic phrases
D. D. Lewis, W. B. Croft
December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '90**
Publisher: ACM Press

Full text available: 🗎 pdf(1.62 MB)   Additional Information: full citation, abstract, references, citings, index terms

Term clustering and syntactic phrase formation are methods for transforming natural language text. Both have had only mixed success as strategies for improving the quality

of text representations for document retrieval. Since the strengths of these methods are complementary, we have explored combining them to produce superior representations. In this paper we discuss our implementation of a syntactic phrase generator, as well as our preliminary experiments with producing phrase clusters. Th ...

4 The automatic generation of extended queries

C. J. Crouch, D. B. Crouch, K. R. Nareddy
December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '90**
Publisher: ACM Press

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, citings, index terms

In the extended vector space model, each document vector consists of a set of subvectors representing the multiple concepts or concept classes present in the document. Typical information concepts, in addition to the usual content terms or descriptors, include author names, bibliographic links, etc. The extended vector space model is known to improve retrieval effectiveness. However, a major impediment to the use of the extended model is the construction of an extended quer ...

5 Parallel text search methods

Gerard Salton, Chris Buckley
February 1988 **Communications of the ACM**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(1.53 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A comparison of recently proposed parallel text search methods to alternative available search strategies that use serial processing machines suggests parallel methods do not provide large-scale gains in either retrieval effectiveness or efficiency.

6 A cluster-based approach to thesaurus construction

C. J. Crouch
May 1988 **Proceedings of the 11th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '88**
Publisher: ACM Press

Full text available: pdf(958.11 KB)   Additional Information: full citation, abstract, references, citings, index terms

The importance of a thesaurus in the successful operation of an information retrieval system is well recognized. Yet techniques which support the automatic generation of thesauri remain largely undiscovered. This paper describes one approach to the automatic generation of global thesauri, based on the discrimination value model of Salton, Yang, and Yu and on an appropriate clustering algorithm. This method has been implemented and applied to two document collections. Preliminary results ind ...

7 Content 4: image analysis and retrieval: Formulating context-dependent similarity functions

Gang Wu, Edward Y. Chang, Navneet Panda
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press

Full text available: pdf(247.27 KB)   Additional Information: full citation, abstract, references, index terms

Tasks of information retrieval depend on a good distance function for measuring similarity between data instances. The most effective distance function must be formulated in a context-dependent (also application-, data-, and user-dependent) way. In this paper, we present a novel method, which learns a distance function by capturing the nonlinear relationships among contextual information provided by the application, data, or user. We show that through a process called the "kernel trick," such no ...

Keywords: function learning, kernel machines

8 GIOSS: text-source discovery over the Internet

Luis Gravano, Héctor García-Molina, Anthony Tomasic
June 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 2
Publisher: ACM Press

Full text available: pdf(230.37 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The dramatic growth of the Internet has created a new problem for users: location of the relevant sources of documents. This article presents a framework for (and experimentally analyzes a solution to) this problem, which we call the text-source discovery problem. Our approach consists of two phases. First, each text source exports its contents to a centralized service. Second, users present queries to the service, which returns an ordered list of promising text sources. T ...

Keywords: Internet search and retrieval, digital libraries, distributed information retrieval, text databases

9 Extended abstracts: Mining behavioral groups in large wireless LANs

Wei-jen Hsu, Debojyoti Dutta, Ahmed Helmy
September 2007 **Proceedings of the 13th annual ACM international conference on Mobile computing and networking MobiCom '07**
Publisher: ACM Press

Full text available: pdf(267.80 KB)   Additional Information: full citation, abstract, references, index terms

Recent years have witnessed significant growth in the adoption of portable wireless communication and computing devices (e.g., laptops, PDAs, smart phones) and large-scale deployment of wireless networks (e.g., cellular, WLANs). We envision that future usage of mobile devices and services will be highly personalized. Users will incorporate these new technologies into their daily lives, and the way they use new devices and services will reflect their personality and lifestyle. Therefore it is ...

Keywords: mobility, similarity measure, user classification, wireless LAN

10 Cluster ensembles --- a knowledge reuse framework for combining multiple partitions

Alexander Strehl, Joydeep Ghosh
March 2003 **The Journal of Machine Learning Research**, Volume 3
Publisher: MIT Press

Full text available: pdf(842.50 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the problem of combining multiple partitionings of a set of objects into a single consolidated clustering *without* accessing the features or algorithms that determined these partitionings. We first identify several application scenarios for the resultant 'knowledge reuse' framework that we call *cluster ensembles*. The cluster ensemble problem is then formalized as a combinatorial optimization problem in terms of shared mutual information. In addition to a direct ...

Keywords: cluster analysis, clustering, consensus functions, ensemble, knowledge reuse, multi-learner systems, mutual information, partitioning, unsupervised learning

11 A vector space model for automatic indexing

G. Salton, A. Wong, C. S. Yang
November 1975 **Communications of the ACM**, Volume 18 Issue 11
Publisher: ACM Press

Full text available: 📄 pdf(687.42 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In a document retrieval, or other pattern matching environment where stored entities (documents) are compared with each other or with incoming patterns (search requests), it appears that the best indexing (property) space is one where each entity lies as far away from the others as possible; in these circumstances the value of an indexing system may be expressible as a function of the density of the object space; in particular, retrieval performance may correlate inversely with space densit ...

Keywords: automatic indexing, automatic information retrieval, content analysis, document space

12 <u>The use of cluster hierarchies in hypertext information retrieval</u> ▪

D. B. Crouch, C. J. Crouch, G. Andreas
November 1989 **Proceedings of the second annual ACM conference on Hypertext HYPERTEXT '89**
Publisher: ACM Press

Full text available: 📄 pdf(1.05 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The graph-traversal approach to hypertext information retrieval is a conceptualization of hypertext in which the structural aspects of the nodes are emphasized. A user navigates through such hypertext systems by evaluating the semantics associated with links between nodes as well as the information contained in nodes. [Fris88] In this paper we describe an hierarchical structure which effectively supports the graphical traversal of a document collection in a hypertext system ...

13 <u>Models and tools for generating digital libraries: Collection synthesis</u> ▪

Donna Bergmark
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**
Publisher: ACM Press

Full text available: 📄 pdf(321.68 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The invention of the hyperlink and the HTTP transmission protocol caused an amazing new structure to appear on the Internet -- the World Wide Web. With the Web, there came spiders, robots, and Web crawlers, which go from one link to the next checking Web health, ferreting out information and resources, and imposing organization on the huge collection of information (and dross) residing on the net. This paper reports on the use of one such crawler to synthesize document collections on various top ...

Keywords: NSDL, World Wide Web, crawling, information retrieval clustering, mercator, topic management

14 <u>Clustering hypertext with applications to web searching</u> ▪

Dharmendra S. Modha, W. Scott Spangler
May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia HYPERTEXT '00**
Publisher: ACM Press
Full text available: 📄 pdf(300.31 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: cluster annotation, feature combination, high-dimensional data, hyperlinks, sparse data, toric k-means algorithm, vector space model

15

Summary in context: Searching versus browsing
Daniel M. McDonald, Hsinchun Chen
January 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(530.99 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The use of text summaries in information-seeking research has focused on query-based summaries. Extracting content that resembles the query alone, however, ignores the greater context of the document. Such context may be central to the purpose and meaning of the document. We developed a generic, a query-based, and a hybrid summarizer, each with differing amounts of document context. The generic summarizer used a blend of discourse information and information obtained through traditional surface- ...

Keywords: Summarization, browse, generic summaries, indicative summaries, information seeking, natural language processing, search, text processing

16 XML stream processing using tree-edit distance embeddings
Minos Garofalakis, Amit Kumar
March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(726.56 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution is a novel algorithm for obliviously embedding tree-edit distance metrics into an $L1$ vector space while guaranteeing a (worst-case) upper bound of $O(\log^2 n \log\ast n)$ on the distance distortion betwee ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

17 Optimization of inverted vector searches
Chris Buckley, Alan F. Lewit
June 1985 **Proceedings of the 8th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '85**
Publisher: ACM Press
Full text available: pdf(905.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

A simple algorithm is presented for increasing the efficiency of information retrieval searches which are implemented using inverted files. This optimization algorithm employs knowledge about the methods used for weighting document and query terms in order to examine as few inverted lists as possible. An extension to the basic algorithm allows greatly increased performance optimization at a modest cost in retrieval effectiveness. Experimental runs are made examining several differen ...

18 Personalization of search engine services for effective retrieval and knowledge management
Weiguo Fan, Michael D. Gordon, Praveen Pathak
December 2000 **Proceedings of the twenty first international conference on Information systems ICIS '00**
Publisher: Association for Information Systems
Full text available: pdf(174.07 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

19

Survey articles: Data mining for hypertext: a tutorial survey

Soumen Chakrabarti

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, citings

> With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces: clicking on hyperlinks and searching via keyword queries. This process is often tentative and unsatisfactory. Better support is needed for expressing one's information need and dealing with a search result in more structured ways than av ...

20 Improving text retrieval for the routing problem using latent semantic indexing

David Hull

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '94**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(883.83 KB)   Additional Information: full citation, references, citings, index terms, review

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21 <u>Web mining with search engines: A web-based kernel function for measuring the</u> ■
<u>similarity of short text snippets</u>
Mehran Sahami, Timothy D. Heilman
May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**
Publisher: ACM Press

Full text available: 📄 <u>pdf(198.64 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

Determining the similarity of short text snippets, such as search queries, works poorly with traditional document similarity measures (e.g., cosine), since there are often few, if any, terms in common between two short text snippets. We address this problem by introducing a novel method for measuring the similarity between short text snippets (even those without any overlapping terms) by leveraging web search results to provide greater context for the short texts. In this paper, we define such a ...

Keywords: information retrieval, kernel functions, query suggestion, text similarity measures, web search

22 <u>Technical papers: Aiding knowledge capture by searching for extensions of</u> ■
<u>knowledge models</u>
David B. Leake, Ana Maguitman, Thomas Reichherzer, Alberto J. Cañas, Marco Carvalho, Marco Arguedas, Sofia Brenes, Tom Eskridge
October 2003 **Proceedings of the 2nd international conference on Knowledge capture K-CAP '03**
Publisher: ACM Press

Full text available: 📄 <u>pdf(458.76 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Electronic concept mapping tools empower experts to play an active role in the knowledge capture process, and provide a medium for building richly connected multimedia *knowledge models*---sets of linked concept maps and resources about a particular domain. Knowledge models are intended to be used as a means for sharing knowledge among humans, not as carefully-crafted knowledge bases upon which machines will be performing inference. However, users must still confront the questions of what t ...

Keywords: case-based reasoning, concept mapping, context, knowledge acquisition tools, knowledge engineering and modeling methodologies, knowledge management environments, retrieval

23 Content 6 - video search: Semantic concept-based query expansion and re-ranking for multimedia retrieval

Apostol (Paul) Natsev, Alexander Haubold, Jelena Tešić, Lexing Xie, Rong Yan

September 2007 **Proceedings of the 15th international conference on Multimedia MULTIMEDIA '07**

Publisher: ACM Press

Full text available: pdf(521.20 KB)   Additional Information: full citation, abstract, references, index terms

We study the problem of semantic concept-based query expansion and re-ranking for multimedia retrieval. In particular, we explore the utility of a fixed lexicon of visual semantic concepts for automatic multimedia retrieval and re-ranking purposes. In this paper, we propose several new approaches for query expansion, in which textual keywords, visual examples, or initial retrieval results are analyzed to identify the most relevant visual concepts for the given query. These concepts are then u ...

24 Mining User preference using Spy voting for search engine personalization

Wilfred Ng, Lin Deng, Dik Lun Lee

October 2007 **ACM Transactions on Internet Technology (TOIT),** Volume 7 Issue 4

Publisher: ACM Press

Full text available: pdf(389.22 KB)   Additional Information: full citation, abstract, references, index terms

This article addresses search engine personalization. We present a new approach to mining a user's preferences on the search results from clickthrough data and using the discovered preferences to adapt the search engine's ranking function for improving search quality. We develop a new preference mining technique called *SpyNB*, which is based on the practical assumption that the search results clicked on by the user reflect the user's preferences but does not draw any conclusions about t ...

Keywords: Personalization, clickthrough data, search engine, user preferences

25 Theory 1: Better than the real thing?: iterative pseudo-query processing using cluster-based language models

Oren Kurland, Lillian Lee, Carmel Domshlak

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Publisher: ACM Press

Full text available: pdf(235.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a novel approach to pseudo-feedback-based ad hoc retrieval that uses language models induced from both documents and clusters. First, we treat the pseudo-feedback documents produced in response to the original query as a set of *pseudo-query* that themselves can serve as input to the retrieval process. Observing that the documents returned in response to the pseudo-query can then act as pseudo-query for subsequent rounds, we arrive at a formulation of pseudo-query-based retrieval ...

Keywords: aspect recall, cluster-based language models, clustering, language modeling, pseudo-feedback, pseudo-queries, query drift, rendition

26 Effective document presentation with a locality-based similarity heuristic

Owen de Kretser, Alistair Moffat

August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '99**

Publisher: ACM Press

Full text available: pdf(272.23 KB)   Additional Information: full citation, references, citings, index terms

27

A corpus analysis approach for automatic query expansion and its extension to multiple databases

Susan Gauch, Jianying Wang, Satya Mahesh Rachakonda

July 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: pdf(111.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

Searching online text collections can be both rewarding and frustrating. While valuable information can be found, typically many irrelevant documents are also retrieved, while many relevant ones are missed. Terminology mismatches between the user's query and document contents are a main cause of retrieval failures. Expanding a user's query with related words can improve search performances, but finding and using related words is an open problem. This research uses corpus analysis technique ...

Keywords: query expansion

28 TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Publisher: MIT Press

Full text available: pdf(2.46 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful for many text analysis tasks, including information retrieval and ...

29 Efficiency: Pruned query evaluation using pre-computed impacts

Vo Ngoc Anh, Alistair Moffat

August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '06**

Publisher: ACM Press

Full text available: pdf(184.64 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Exhaustive evaluation of ranked queries can be expensive, particularly when only a small subset of the overall ranking is required, or when queries contain common terms. This concern gives rise to techniques for dynamic query pruning, that is, methods for eliminating redundant parts of the usual exhaustive evaluation, yet still generating a demonstrably "good enough" set of answers to the query. In this work we propose new pruning methods that make use of impact-sorted indexes. Compared to exhau ...

30 Language models: Corpus structure, language models, and ad hoc information retrieval

Oren Kurland, Lillian Lee

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Publisher: ACM Press

Full text available: pdf(214.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most previous work on the recently developed *language-modeling* approach to information retrieval focuses on document-specific characteristics, and therefore does not take into account the structure of the surrounding corpus. We propose a novel algorithmic framework in which information provided by document-based language models is enhanced by the incorporation of information drawn from *clusters* of similar documents.

Using this framework, we develop a suite of new algorithms. Even t ...

Keywords: aspect models, cluster-based language models, clustering, interpolation model, language modeling, smoothing

31 A dependence maximization view of clustering

Le Song, Alex Smola, Arthur Gretton, Karsten M. Borgwardt
June 2007 **Proceedings of the 24th international conference on Machine learning ICML '07**
Publisher: ACM Press
Full text available: pdf(611.23 KB)   Additional Information: full citation, abstract, references

We propose a family of clustering algorithms based on the maximization of dependence between the input variables and their cluster labels, as expressed by the Hilbert-Schmidt Independence Criterion (HSIC). Under this framework, we unify the geometric, spectral, and statistical dependence views of clustering, and subsume many existing algorithms as special cases (e.g. k-means and spectral clustering). Distinctive to our framework is that kernels can also be applied on the labels, which ...

32 Course 23: Geometric modeling based on polygonal meshes: Geometric modeling based on polygonal meshes
Video files associated with this course are available from the citation page
Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl
August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
Publisher: ACM Press
Full text available: pdf(44.53 MB)   Additional Information: full citation, appendices and supplements, abstract, references

In the last years triangle meshes have become increasingly popular and are nowadays intensively used in many different areas of computer graphics and geometry processing. In classical CAGD irregular triangle meshes developed into a valuable alternative to traditional spline surfaces, since their conceptual simplicity allows for more flexible and highly efficient processing.

33 Composite document extended retrieval: an overview

Edward A. Fox
June 1985 **Proceedings of the 8th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '85**
Publisher: ACM Press
Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, citings

Experimental information retrieval (IR) systems, some dating back to the sixties, have demonstrated the viability of fully automatic document storage and retrieval methodologies with small to medium size bibliographic collections [72]. Many of these experimental systems utilize the vector space model in which each important term (such as a word stem) identifies a different dimension in a space, so that matrix methods and vector operations can be defined on queries and documents. Statistical ...

34 Performance issues and error analysis in an open-domain question answering system

Dan Moldovan, Marius Paşca, Sanda Harabagiu, Mihai Surdeanu
April 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2
Publisher: ACM Press
Full text available: pdf(270.12 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an in-depth analysis of a state-of-the-art Question Answering system. Several scenarios are examined: (1) the performance of each module in a serial baseline system, (2) the impact of feedbacks and the insertion of a logic prover, and (3) the impact of various retrieval strategies and lexical resources. The main conclusion is that the overall performance depends on the depth of natural language processing resources and the tools used for answer finding.

Keywords: Question answering, natural language applications, performance analysis, text retrieval

35 Automatic combination of multiple ranked retrieval systems

Brian T. Bartell, Garrison W. Cottrell, Richard K. Belew

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '94**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(834.64 KB)   Additional Information: full citation, references, citings, index terms

36 Navigating within the data: VINETA: navigation through virtual information spaces

Uwe Krohn

May 1996 **Proceedings of the workshop on Advanced visual interfaces AVI '96**

Publisher: ACM Press

Full text available: pdf(2.31 MB)   Additional Information: full citation, abstract, references, citings

Vineta is a system prototype allowing navigation through bibliographic data without the typing and revising of keyword-based queries. Our approach to visualizing documents and terms in navigational retrieval includes the representation of documents and terms as graphical objects, and dynamic positioning of these objects in the 3D virtual navigation space. Users can navigate through this virtual navigation space examining individual documents and clusters of documents at various levels of detail. ...

37 Reviewed articles: Estimating network proximity and latency

Puneet Sharma, Zhichen Xu, Sujata Banerjee, Sung-Ju Lee

July 2006 **ACM SIGCOMM Computer Communication Review**, Volume 36 Issue 3

Publisher: ACM Press

Full text available: pdf(2.49 MB)   Additional Information: full citation, abstract, references, index terms

Network proximity and latency estimation is an important component in discovering and locating services and applications. With the growing number of services and service providers in the large-scale Internet, accurately estimating network proximity/latency with minimal probing overhead becomes essential for scalable deployment. Although there exist a number of network distance estimation schemes, they either rely on extensive infrastructure support, require the IP address of the potential target ...

Keywords: network distance estimation, network measurement

38 Tissue classification with gene expression profiles

Amir Ben-Dor, Laurakay Bruhn, Nir Friedman, Iftach Nachman, Michèl Schummer, Zohar Yakhini

April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology RECOMB '00**

Publisher: ACM Press

Full text available: pdf(1.11 MB)   Additional Information: full citation, abstract, references, citings

Constantly improving gene expression profiling technologies are expected to provide understanding and insight into cancer related cellular processes. Gene expression data is also expected to significantly and in the development of efficient cancer diagnosis and classification platforms. In this work we examine two sets of gene expression data

measured across sets of tumor and normal clinical samples One set consists of 2,000 genes, measured in 62 epithelial colon samples [1]. The second consi ...

39 Shape retrieval and watermarking: Scale-space representation of 3D models and topological matching

Dmitriy Bespalov, Ali Shokoufandeh, William C. Regli, Wei Sun

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications SM '03**

Publisher: ACM Press

Full text available: pdf(668.64 KB)   Additional Information: full citation, abstract, references, citings, index terms

Reeb graphs have been shown to be effective for topology matching of 3D objects. Their effectiveness breaks down, however, when the individual models become very geometrically and topologically detailed---as is the case for complex machined parts. The result is that Reeb graph techniques, as developed for matching general shape and computer graphics models, produce poor results when directly applied to create engineering databases.This paper presents a framework for shape matching through scale- ...

Keywords: matching, scale-space, solid modelling

40 Link-based similarity: LSH forest: self-tuning indexes for similarity search

Mayank Bawa, Tyson Condie, Prasanna Ganesan

May 2005 **Proceedings of the 14th international conference on World Wide Web WWW '05**

Publisher: ACM Press

Full text available: pdf(247.91 KB)   Additional Information: full citation, abstract, references, index terms

We consider the problem of indexing high-dimensional data for answering (approximate) similarity-search queries. Similarity indexes prove to be important in a wide variety of settings: Web search engines desire fast, parallel, main-memory-based indexes for similarity search on text data; database systems desire disk-based similarity indexes for high-dimensional data, including text and images; peer-to-peer systems desire distributed similarity indexes with low communication cost. We propose an i ...

Keywords: peer-to-peer (P2P), similarity indexes

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41 <u>Effective information retrieval using term accuracy</u>   ■

C. T. Yu, G. Salton
March 1977 **Communications of the ACM**, Volume 20 Issue 3
Publisher: ACM Press
Full text available: 📄 <u>pdf(799.09 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

> The performance of information retrieval systems can be evaluated in a number of different ways. Much of the published evaluation work is based on measuring the retrieval performance of an average user query. Unfortunately, formal proofs are difficult to construct for the average case. In the present study, retrieval evaluation is based on optimizing the performance of a specific user query. The concept of query term accuracy is introduced as the probability of occurrence of a query term in ...

> **Keywords**: automatic indexing, content analysis, frequency weighting, information retrieval, term accuracy, thesaurus and phrase transformations

42 <u>Paper session I: techniques: Multi-vector feature space based on pseudo-euclidean</u>   ■
<u>space and oblique basis for similarity searches of images</u>
Yasuo Yamane
June 2004 **Proceedings of the 1st international workshop on Computer vision meets databases CVDB '04**
Publisher: ACM Press
Full text available: 📄 <u>pdf(746.64 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

> Investigators have tried to increase the precision of similarity searches of images by using distance functions that reflect the similarity of features. When the quadratic-form distance is used, however, dissimilar images can be judged to be similar. We therefore propose that the similarity of images be evaluated using a measure of distance in a multi-vector feature space based on pseudo-Euclidean space and an oblique basis (MVPO). In this space an image is represented by a set of vectors each o ...

43 <u>Face recognition: A literature survey</u>   ■

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: 📄 <u>pdf(4.28 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several

years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

44 Message extraction through estimation of relevance
Christopher Landauer, Clinton Mah
June 1980 **Proceedings of the 3rd annual ACM conference on Research and development in information retrieval SIGIR '80**
Publisher: Butterworth & Co.
Full text available: pdf(1.16 MB)   Additional Information: full citation, references, citings

45 Effective Automatic Indexing Using Term Addition and Deletion
C. T. Yu, G. Salton, M. K. Siu
April 1978 **Journal of the ACM (JACM)**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(950.30 KB)   Additional Information: full citation, references, citings, index terms

46 Supporting the writing of reports in a hierarchical organization
Andreas Girgensohn
March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(1.31 MB)   Additional Information: full citation, abstract, references, index terms

In many hierarchical companies, reports from several independent groups must be merged to form a single, company-wide report. This paper describes a process and system for creating and structuring such reports and for propagating contributions up the organization. The system has been in regular use, in-house, by about 30 users for over a year to create monthly status reports. Our experiences indicate that it is possible to change a monthly reporting practice so that the system is easy to use, im ...

Keywords: World Wide Web, collaborative writing, corporate memory, hierarchical organizations, report generation, user feedback

47 Stable algorithms for link analysis
Andrew Y. Ng, Alice X. Zheng, Michael I. Jordan
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '01**
Publisher: ACM Press
Full text available: pdf(208.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

The Kleinberg HITS and the Google PageRank algorithms are eigenvector methods for identifying ``authoritative'' or ``influential'' articles, given hyperlink or citation information. That such algorithms should give reliable or consistent answers is surely a desideratum, and in~\cite{ijcaiPaper}, we analyzed when they can be expected to give stable rankings under small perturbations to the linkage patterns. In this paper, we extend the analysis and show how it gives insight into ways of de ...

48
Best student papers: Semantic manifold learning for image retrieval

Yen-Yu Lin, Tyng-Luh Liu, Hwann-Tzong Chen

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(2.12 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Learning the user's semantics for CBIR involves two different sources of information: the similarity relations entailed by the content-based features, and the relevance relations specified in the feedback. Given that, we propose an *augmented relation embedding* (ARE) to map the image space into a *semantic manifold* that faithfully grasps the user's preferences. Besides ARE, we also look into the issues of selecting a good feature set for improving the retrieval performance. With thes ...

Keywords: dimensionality reduction, feature selection, image retrieval, manifold learning, relevance feedback

49 <u>Multi-lingual IR: Cross-lingual query suggestion using query logs of different languages</u>

Wei Gao, Cheng Niu, Jian-Yun Nie, Ming Zhou, Jian Hu, Kam-Fai Wong, Hsiao-Wuen Hon

July 2007 **Proceedings of the 30th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '07**

Publisher: ACM Press

Full text available: pdf(295.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Query suggestion aims to suggest relevant queries for a given query, which help users better specify their information needs. Previously, the suggested terms are mostly in the same language of the input query. In this paper, we extend it to cross-lingual query suggestion (CLQS): for a query in one language, we suggest similar or relevant queries in other languages. This is very important to scenarios of cross-language information retrieval (CLIR) and cross-lingual keyword bidding for search e ...

Keywords: cross-language information retrieval, query expansion, query logs, query suggestion, query translation

50 <u>On the Nyström Method for Approximating a Gram Matrix for Improved Kernel-Based Learning</u>

Petros Drineas, Michael W. Mahoney

December 2005 **The Journal of Machine Learning Research**, Volume 6

Publisher: MIT Press

Full text available: pdf(218.76 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>

A problem for many kernel-based methods is that the amount of computation required to find the solution scales as $O(n^3)$, where n is the number of training examples. We develop and analyze an algorithm to compute an easily-interpretable low-rank approximation to an $n \times n$ Gram matrix G such that computations of interest may be performed more rapidly. The approximation is of the form $\tilde{G}_k = CW_k^+ C^T$

51 <u>Incremental relevance feedback for information filtering</u>

James Allan

August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '96**

Publisher: ACM Press

Full text available: pdf(892.54 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

52 <u>Peer-to-peer computing: Guiding queries to information sources with InfoBeacons</u>

Brian F. Cooper

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on**

Middleware Middleware '04
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(315.55 KB)   Additional Information: full citation, abstract, references

The Internet provides a wealth of useful information in a vast number of dynamic
information sources, but it is difficult to determine which sources are useful for a given
query. Most existing techniques either require explicit source cooperation (for example, by
exporting data summaries), or build a relatively static source characterization (for
example, by assigning a topic to the source). We present a system, called
<I>InfoBeacons</I>, that takes a different approach: data and sou ...

Keywords: integration, peer-to-peer search, source discovery

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    Hai-xiang Guo; Ke-jun Zhu; Si-wei Gao; Ting Liu;
    Data Mining Workshops, 2006. ICDM Workshops 2006. Sixth IEEE International Conference on
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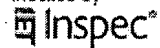Youngin Shin Oh; Farison, J.B.;
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